Contents

Installation

Your remote control ***2***
Preparation ***3***
Installation ***5***
Store TV channels ***5***
- Select the menu language and country ***5***
- Automatic installation ***6***
- Manual installation ***6***

Give name ***7***
Reshuffle the programme list ***7***
Select favourite TV channels ***7***
Install TV setup ***8-11***

Operation

Use of the remote control ***12-14***
Use of the menus
- Picture menu ***15***
- Sound menu ***16-19***
- Features menu ***20***

Dual Screen ***21***
NEXTVIEW ***22-26***
Teletext ***27-29***
Keys on top of the TV ***29***

Connect peripheral equipment

Connecting and selecting equipment ***30-34***
Remote control functions for peripherals ***34-35***
Recording ***36***

Tips ***37***
Index ***38***
Glossary ***39***

easy LINK

EasyLink features are based on the "one touch operation" approach. This means that a sequence of actions are executed at the same time in both the television and the video cassette recorder, ***provided both are fitted with the EasyLink function*** *and connected with the eurocable supplied with your video recorder.*

English

Preparation

Your remote control

Peripherals p. 34
selection of **EXT1**, **EXT2**, **EXT3**, **EXT4** or **FRONT**

TV, videorecorder (**VCR**), **DVD**, Satellite (**SAT**), **TUNER**, **CD**, **TAPE** or cd-recordable (**CDR**) selection.

switch to standby p. 12

no function
freeze the picture p. 12
hold teletext page p. 28
surround modes p. 12

NEXTVIEW on/off p. 12
OK activate your choice

Colour keys
- select TV channels by theme p. 14
- direct teletext page or subject selection p. 27

Audio and Video equipment p. 34-35

teletext on/off p. 27
main menu on/off p. 15

volume up/down p. 12
sound mute p. 12
P programme selection p. 12

cursor to select your choice p. 15

on screen info p. 12
P↩P previous programme p. 12
-/-- video recorder/DVD function p. 12

Teletext p. 28
time display/subpage selection
solution to puzzles display PDC/VPS code
enlarge

DNR reduce image noise p. 14

Zoom p. 14
zoom on/off

Installation p. 5

I-II bilingual choice/sound info p.14
TXT language group selection p. 28

EasyLink p. 14
● **INSTANT** recording

picture format p. 14

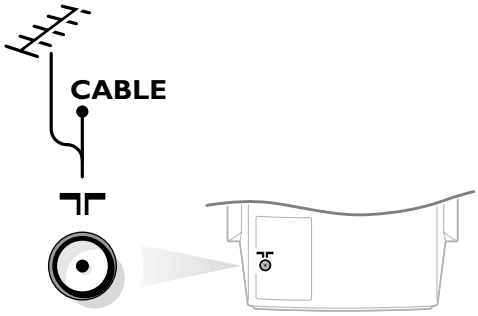
Smart Controls
- smart sound p. 13
- active control p. 13
- smart picture p. 13

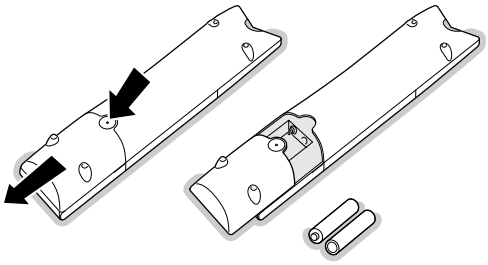
Dual Screen p. 21
- dual screen on
- no function
- still teletext picture
- strobe p. 13

Preparation

1 **Place the TV on a solid surface.**
For ventilation, leave at least 5 cm free all around the TV.
Do not place the TV on a carpet.
To prevent any unsafe situations, do not place any objects on top of the TV.
Avoid heat, direct sunlight and exposure to rain or water.

2 **Insert the aerial plug** firmly into the aerial socket ⊓ at the back of the TV.
For best picture quality use the suppressor-aerial cable supplied.

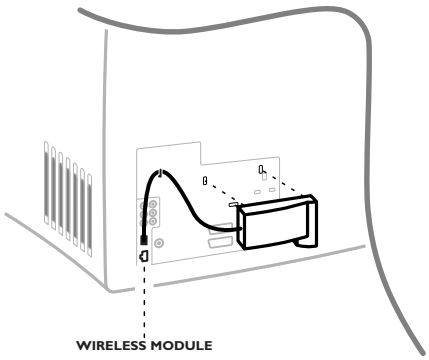




3 Remote control: Remove the cover of the battery compartment.
Insert the 2 batteries supplied (Type R6-1,5V).
Press the **TV** key to be sure your remote control is in the TV mode.

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of exhausted batteries according to local regulations.

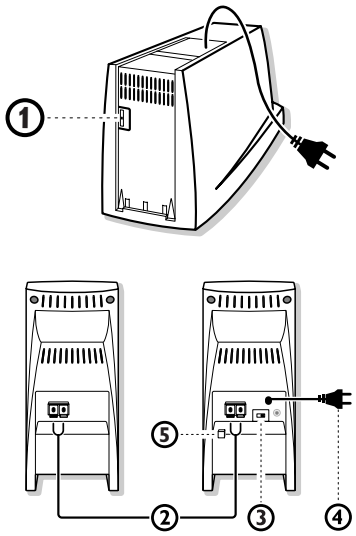
Note: this remote control functions with TVs which use the RC6 signalling standard.



4 **Wireless surround speaker system.**
Supplied and separately packed with your TV are:
- a wireless module (with antenna if provided) with an integrated cable
- 2 surround loudspeakers

Receiver box

- Attach the wireless module to the back of the TV as shown opposite.
- Connect the attached cable to the **WIRELESS MODULE** connector.



Surround loudspeakers

There are two surround loudspeakers supplied. One is the active loudspeaker, including the RF receiver, a power switch, the mains supply, a channel selector, a red and black connector clip, a left/right surround loudspeaker switch and a 3.5 mm stereo jack to make a wired connection with your TV in case there is interference or the wireless connection is not possible. The other loudspeaker is a passive one which has to be connected with the active loudspeaker with the supplied speaker cable.

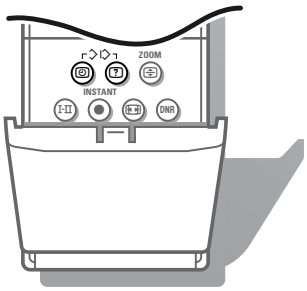
- Set the slide channel switch ① at the bottom of the active loudspeaker to channel 1. (In the factory channel 1 has been chosen as the default channel.) See also Sound Setup, p. 10.
- Connect the active to the passive loudspeaker with the supplied speaker cable ②.
  Push the connector clip down, insert one end of the colour coded wire into the opening of one connector clip and push it up again. Insert the other end of the same colour coded wire in the same colour connector clip of the other loudspeaker. Do the same with the other wire in the other connector clips. Do not insert the wires too far.
- The Surround sound loudspeakers should always be located behind or to either side of the listener. If preferred you can also hang the loudspeakers on the wall.
  The maximum distance between the TV and the surround speakers should not exceed 15 m.
  Note: people moving around close to the TV may interfere with the sound transmission.
- Set the slide switch ③ to the right if the active loudspeaker is positioned to the right side of the listener, to the left if it is positioned to the left side of the listener (seen from the point of view of watching the TV).
- Connect the active loudspeaker to the mains with the mains cable ④.
- Switch on the active loudspeaker with the **POWER** switch ⑤.
  The red indicator at the front of the active surround speaker shows that the speaker is in standby.
  During sound transmission the indicator turns to green and back to red after 10-15 min. after the TV has been switched off.
  To switch the active speaker off, use the **POWER** switch.

5 **Insert the mains plug of the TV** in the wall socket having a mains voltage of 220V-240V.
To prevent damaging the mains (AC) cord which could cause a fire or electric shock, do not place the TV on the cord.

6 **Switch the TV on :** Press the power switch ⏻ on the front of your TV.
A green indicator on the front of the TV lights up and the screen comes on.
If the indicator is red, press the **- P +** keys on the remote control.

The green lamp blinks every time you press a key on the remote control.
*When you switch on your set **for the first time**, the menu **LANGUAGE** automatically appears on the screen. The explanation appears in different languages one at a time. Choose your own language and press the **OK** key on the remote control.*

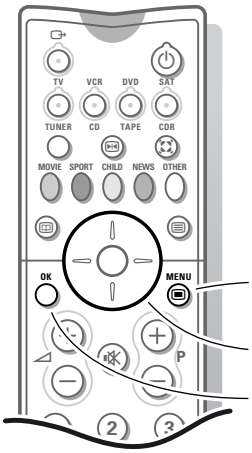
Installation



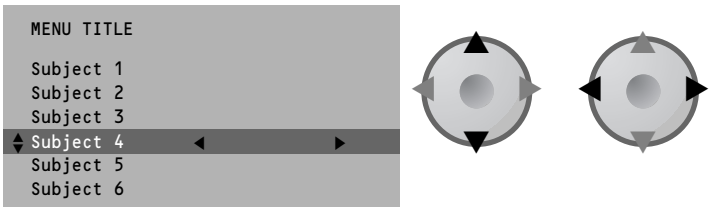
Select the INSTALLATION menu

1. Open the door of the remote control.
2. Press ⏻ and ? at the same time.

To use the menus



1. Use the cursor in the up/down, left/right directions to select a menu item.
2. Press the **OK** key to activate.
3. Use the ▣ key to return or to switch the menu off.



Store TV channels

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After the new or extra TV channels have been stored, the TV automatically transfers those TV channels to the video recorder if it is equipped with the EasyLink function. The message ***EasyLink : Downloading .....*** *appears on the screen. The programme list of the video recorder is now the same as the one of the TV. If the TV is connected to a video recorder which supports the* NEXTVIEWLink *function, the TV also automatically transfers the language and country selections to the video recorder.*

Select the menu language and country

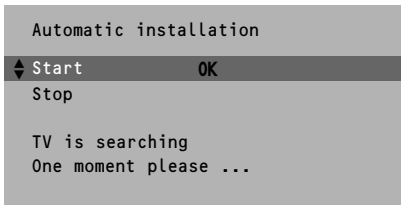
First, select your language and country.

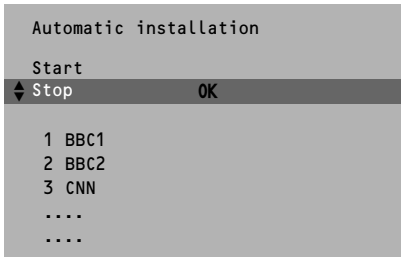
1. Select **Menu language** and press the **OK** key.
2. Select your language and press the **OK** key.
   Use the cursor up/down to scroll through the list and to bring up other languages which are not displayed on the screen at present.
3. Select **Country** and press the **OK** key.
4. Select the country where you are now located and press the **OK** key.
   Use the cursor up/down to scroll through the list and bring up other countries which are not displayed on the screen at present.

   Select **Other** when none of the countries applies.

   You can now search for and store the TV channels in two different ways: using **automatic installation** or **manual installation** (tuning-in channel by channel).
   Select your choice and press the **OK** key.

Automatic installation





In the Automatic Installation menu select **Start** and press the **OK** key to activate the searching. All TV channels are searched for and stored automatically.

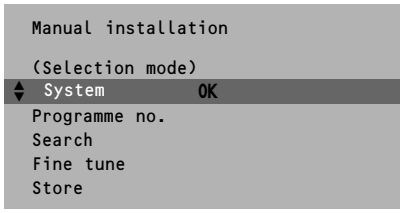
If a cable system which broadcasts ACI (Automatic Channel Installation) or a TV channel transmitting a teletext page with the frequencies and programme names of all the TV channels which can be received, is detected, the search is stopped and a programme list appears.
The programme list is automatically filled with all the programme numbers and names of the TV channels transmitted.

It is possible that the cable company or the TV channel displays a broadcast selection menu. Layout and items are defined by the cable company or the TV channel. Make your choice with the cursor and press the **OK** *key.*

To exit from the menu press the ▭ key on the remote control.

Go on to page 7.

Manual installation



Searching for and storing TV channels is done channel by channel.
You must go through every step of the Manual Installation menu.

Selection mode is only present and lights up if the country selected also offers the channel option (C-channels for aerial channels, S-channels for cable channels).
You can choose either channel or frequency mode.

1. Select the TV system
   Select the country or part of the world from where you want to receive the TV channel.
   If you are connected to a cable system, select your country or part of the world where you are now located.

2. Press the cursor down and enter the programme number with the digit keys.

3. Search for a TV channel
   Press the cursor left/right.
   The frequency or the channel number increases until a TV channel is found.

   Direct selection of a TV channel
   If you know the frequency, the C- or S-channel number, enter it directly with the digit keys 0 to 9.
   Ask for a list from your cable company or dealer, alternatively consult the Table of frequencies on the inside backcover of this handbook.

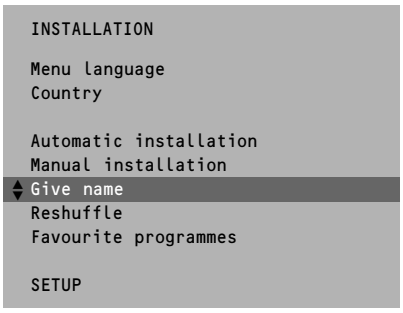
4. Fine tune
   In case of poor reception, you can improve the reception by adjusting the frequency with the cursor left/right.

5. To store your TV channel, select **Store** and press the **OK** key.

   Repeat steps 1 to 5 to store another TV channel.

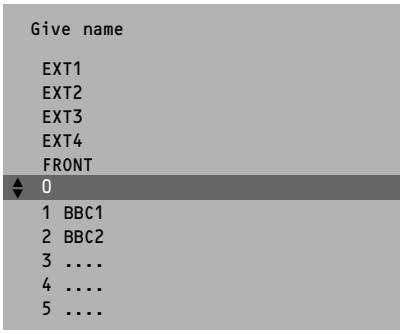
6. To exit from the menu press the ▭ key on the remote control.

Give name



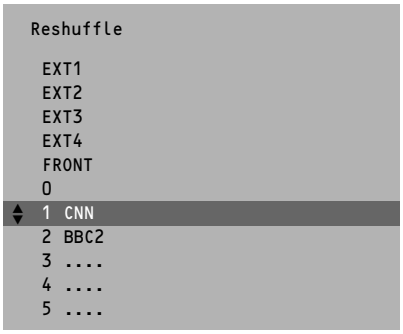
It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,...
Between 99 and 0 you can also name any peripherals that are connected to a euroconnector.

1. Select **Give name** in the **INSTALLATION** menu and press the **OK** key.
2. Select the programme number.
3. Press the **OK** key.
4. Select the character with the cursor up/down.
5. Select the following position with the cursor right.
6. Select the following character.
7. Press the **OK** key when finished.
8. Press the ▣ key to return to the **INSTALLATION** menu.



Space, numbers and other special characters are located between Z and A.

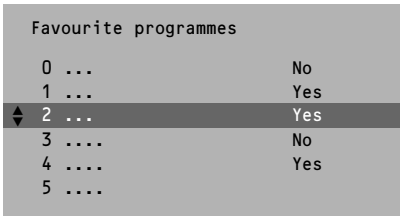
Reshuffle the programme list



According to your preference you **can** change the order of the stored TV channels.

1. Select **Reshuffle** in the **INSTALLATION** menu and press the **OK** key.
2. Select the programme number you want to exchange.
3. Press the **OK** key.
4. Select the new number you want to exchange it with.
5. Press the **OK** key.
   Repeat the operation until all TV channels are allocated as you like.
6. Press the ▣ key to return to the **INSTALLATION** menu.

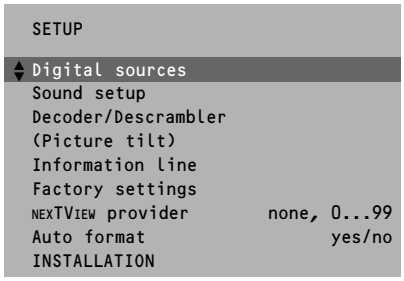
Select Favourite TV channels

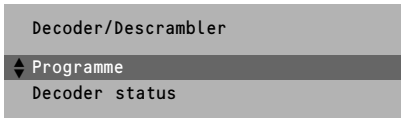


After leaving the installation you can browse through the TV channels by pressing the **- P +** keys. Only those TV channels which are in the favourite list will be displayed. Non-favourite TV channels can still be selected with the digit keys. By default all stored TV channels are added to the favourite list.

1. Select **Favourite programmes** in the **INSTALLATION** menu and press the **OK** key.
2. Select your favourite programme number.
3. Select **Yes** or **No** with the cursor left/right.
4. Repeat for every TV channel you want to make a favourite or a non-favourite TV channel.
5. Press the ▣ key to return to the **INSTALLATION** menu.

In order for NEXTVIEW to function properly, the first TV channel from the favourite list should also broadcast the correct local date and time via teletext.





Install TV Setup

The Setup menu allows you to adjust initial settings, i.e. those which are not related to the installation of the TV channels.
The Setup menu contains items that control the settings of the TV's functions, features, services and peripherals you may have connected.

1. Use the cursor in the up/down, left/right directions to select the menu item.
2. Use the **OK** key to activate.
3. Use the ▣ key to return or switch menu off.

Digital sources
See Connect Peripheral Equipment, p. 31 to connect your digital equipment, like a DVD, a digital satellite tuner or a similar digital device.

Sound Setup
See p. 10-11.

Define Decoder/Descrambler programme numbers
If a decoder or a descrambler is connected, see p. 30, you can define one or more programme numbers as decoder programme numbers.

Press the cursor left/right to select the input used to connect to your decoder **Off**, **EXT1** or **EXT2**.
Select **Off** if you do not want the selected programme number being activated as a decoder programme number.

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Select **EXT2** *when the decoder is connected to your EasyLink video recorder. When selecting the decoder, the message* ***EasyLink: Downloading Presets....*** *appears on the screen.*

Picture tilt *(if provided)*
Select **Picture tilt** with the cursor up/down.
Keep the cursor left/right pressed to adjust the rotation of the picture.

Information line
Select **On** and after the selection of a TV programme or after pressing the i+ key on the remote control, a TV channel which broadcasts teletext may transmit the name of the TV channel, the programme name or another message. This is displayed on screen next to information about sound, picture format and DNR setting.
When selected **Off**, only sound, picture format and DNR information is displayed after the selection of a TV channel or after pressing the i+ key.

Factory settings
Select **Factory settings** and press the **OK** key to restore picture and sound settings, predefined in the factory.

Auto format
Selecting **Yes** causes the screen to automatically fill as much of the picture as possible when TV programmes are not carrying special signals detecting the correct screen format.
With the ⊡ key on the remote control you can still select other picture formats. See p. 14.

NEXTVIEW provider
Most broadcasters in Europe are offering teletext pages containing the day's programme schedule. These pages can be requested by switching the TV to Teletext Guide.
An increasing number of broadcasters are offering an extended programme guide service called NEXTVIEW.
NEXTVIEW is a new way of presenting programme schedules and offers more features than basic teletext. With NEXTVIEW it is possible to show for instance all the movies or children programmes for tonight or the following days.

If you select **None** as NEXTVIEW provider, the TV will capture all data from the available TV channels which broadcast NEXTVIEW. Broadcaster defined menus will not be available.
If you select a programme number of a TV channel stored in the favourite list as NEXTVIEW provider, the selected TV channel will provide NEXTVIEW data and additional information of its own broadcasts as well as from other (non selected) TV channels.
Normally you will select the NEXTVIEW provider that transmits most information in your language. You can make the best selection via information from TV announcements or from the newspapers.

Important:
In order for NEXTVIEW to function properly, the first TV channel from the favourite list should also broadcast the correct local date and time via teletext.
Please check at startup if the time and date are correct in the NEXTVIEW screen.

Remark:
Not all TV channels support NEXTVIEW.
How to make use of NEXTVIEW, see p. 22.

```
Sound setup

Auto Surround
Wireless Surround
Wireless headphone
Extra front speakers
Distance to front
Distance to rear
```

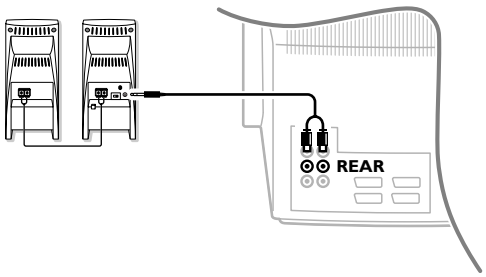
Sound Setup menu

Auto Surround

Sometimes the broadcaster transmits special signals for Surround Sound encoded programmes.
Dependent on your speaker configuration, the TV automatically switches to the best surround sound mode when **Auto Surround** is switched **On**.
However it is possible to overwrite this setting.

Wireless Surround

To make use of the wireless surround loudspeakers, use the cursor left/right to select the same channel as you selected on the active loudspeaker.
(In the factory, channel 1 has been selected as default.)
Under most circumstances an interference free sound reproduction will be guaranteed.
To avoid interference from external RF (wireless) equipment such as headphones, RF audio, remote controls for lights it may be necessary to shift to another wireless channel number. Do not use a mobile telephone close to the wireless equipment as interference might occur.
In practice only 3 or 4 channels are available because at least a gap of two channels is necessary to have enough separation.
Always be sure that the active surround speaker and the Wireless Surround setting are switched to the same transmitting channel. Otherwise no sound or only a distorted sound will be heard on the surround speakers.



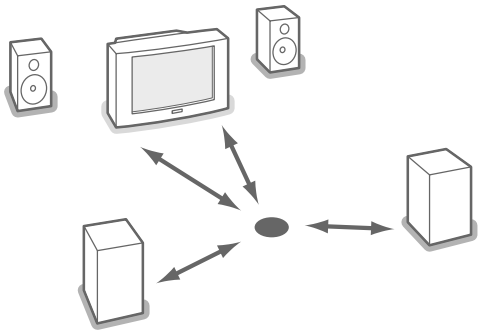
When the TV is tuned to a channel in the neighbourhood of 864 MHz (433 MHz in case you purchased a TV with a typenumber in the range 28-32PW9615/01 or /58 or 32PW9765/01 or /58), the transmitter is switched off because no RF surround sound is possible. This is necessary to avoid interfered picture. You can improve the picture quality by using the suppressor aerial cable supplied.

When no RF surround sound is possible or when there is too much interference, use the wired back up solution with a 3.5 mm stereo jack. In this case select **Off** in the Wireless surround menu item.
Connect the cable with the **PRE-AMP IN (TV)** connector at the back of the active surround loudspeaker and with the black and red **REAR R** or **L** inputs at the back of the TV.

Wireless headphone

When selecting the menu item **Wireless surround**, also the menu item **Wireless headphone** is displayed.
It indicates the transmitting channel in case you want to operate a wireless headphone. The transmitting channel is automatically selected dependent on the transmitting channel chosen for Wireless surround.

Important:
Sets with the typenumber 28-32PW9615/01 and /58 and 32PW9765/01 and /58 will only operate with a wireless headphone for 433 MHz.
All other typenumbers will only operate with wireless headphones for 864 MHz.



Extra front speakers

See Connect Extra loudspeakers, Amplifier, p. 33.
If no extra front speakers/amplifier are connected, do not change the predefined factory setting which is **No (TV)**.

Distance to front

Select the distance between the TV and the place you sit to watch TV to enjoy the perfect surround sound effect.

Distance to rear

Select the distance between the rear surround speakers and the place you sit to enjoy the perfect surround sound effect.

Remark:
Take care that the distance to front is equal or larger than the distance to rear, in order not to disturb the delay time and to get a better surround effect.

To exit from the menu press the ▭ key repeatedly.

Installation

Select Installation and press the **OK** key to return immediately to the **INSTALLATION** menu.

Operation

Use of the remote control

Select peripherals

Press this key repeatedly to select **EXT1**, **EXT2, EXT3, EXT4** or **FRONT**, according to where you connected the peripherals (p. 33).

TV VCR DVD SAT TUNER CD TAPE CDR

Press one of these keys to use the remote control directly in the TV, video recorder, DVD or satellite mode. A green indicator lights up. Press the same key again within 3 seconds to use the remote control in the mode indicated below the key (tuner, CD, tape or CD-recordable).
A red indicator lights up.
Press the key again to return to the function mentioned above the key.

○ no function

● ◀◀ ■ ▶ ▶▶ **Video recorder** see p. 33

NEXTVIEW on/off see p. 22

OK Press this key to activate your choice, when in the menus.

Screen information

Press for 5 seconds to activate/de-activate the extended or reduced display of TV channel and programme information on the screen.

Press briefly to display information about the selected TV channel and programme, the sound reception, picture settings, the selected DNR setting and the remaining time set with the sleeptimer.

Standby

The set is switched off and the red indicator (orange when acquiring NEXTVIEW information) lights up. When acquiring NEXTVIEW the TV is switched to full standby after a period of max. 1 hour and the red indicator lights up.
To switch the TV on again, press **- P +** or the digit keys.
If your EasyLink video recorder has the system standby function and you press the standby key for 3 seconds, both the TV and video recorder are switched to standby.

Freeze

To activate/de-activate the frozen picture and to hold a teletext page.

Surround mode

Press this key repeatedly to select another available surround mode: Dolby Pro Logic, 3D Surround, Dolby 3 Stereo, Stereo, Hall or Dolby Digital.

Teletext on/off see p. 27

Main menu on/off see p. 15

Volume

Press + or - to adjust the volume.

Mute

Temporarily interrupt the sound or restore it.

P Programme selection

To browse through the TV channels activated in the Favourite Programme menu.

0/9 Digit keys

To select a TV channel.
For a two digit programme number, enter the second digit within 2 seconds.
To switch immediately to a selected one digit TV channel, keep the digit key pressed a bit longer.

P↩P Previous programme

The previously selected TV channel is displayed.
The -/-- indication is only for video recorder/DVD.

Active control

Active control is a pro-active and automatic system. The TV continuously measures and corrects all incoming signals in order to provide the best picture possible. Thanks to the Ambient Light Sensor which measures the light conditions of the room in which the TV is situated, the contrast, dynamic contrast, brightness and colour picture settings are adjusted automatically. The light sensor is active when the Active control function is switched to Medium (if provided) or Maximum. Press the key repeatedly to select the Active Control values Off, Minimum, Medium (if provided) or Maximum.

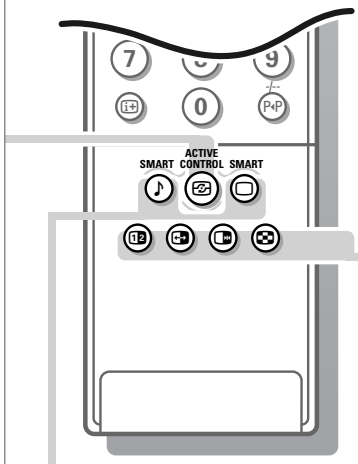
Off Sharpness and Dynamic Contrast are controlled automatically

Minimum Sharpness, Dynamic Contrast and Noise Reduction are controlled automatically.

(**Medium** Dynamic Contrast, Colour, Sharpness and Noise reduction are controlled automatically.)

Maximum Contrast (if provided), Dynamic Contrast, Colour, Sharpness and Noise reduction are controlled automatically.

Press the cursor in the up/down directions while the selected Active Control setting information is on top of the screen.
The Active Control menu appears.
The picture settings are being adapted continuously and automatically.
The menu items cannot be selected.
Colour enhancement (skintone correction, green enhancement and blue stretch) is switched on with certain Smart Picture selections.
Press the cursor in the up/down directions again to switch off the menu.



Dual screen see p. 21

no function

Strobe

Press this key to reproduce the picture image by image.
Press the key again to have a faster speed.
Press the again to switch off the strobe function.

Smart Keys

To select predefined picture and sound settings.

Smart Sound

Each time it is pressed, a different sound setting is selected, corresponding with specific factory settings of treble and bass.

Smart Picture

Each time it is pressed, a different picture setting is selected, corresponding with specific factory settings of Contrast, Colour, Sharpness, Dynamic Contrast and Colour enhancement.

Personal refers to the personal preference settings of picture and sound selected in the picture and sound menu.

Remark: the moment you are in a predefined smart sound or picture setting and you modify a setting in the picture or sound menu, all values of the menu will overwrite the previously made settings.

I-II Bilingual choice and sound mode selection

Press this key
- to switch from **Stereo** to **Mono** sound, in case of stereo transmission, or from **Nicam Stereo** to **Nicam available**, in case of digital transmission;
- to choose between language I (Dual I) or language II (Dual II), in case of bilingual transmission. The setting is separately stored for each TV channel.

● Instant record

If your video recorder has the EasyLink function the **INSTANT** ● key for record can be operated in the TV mode.

Picture format

Press this key repeatedly to select another picture format: 4:3, Movie Expand 14:9, Movie Expand 16:9 with or without subtitling, Wide Screen, Super zoom or Automatic (when Auto format is set to Yes in the **SETUP** menu).
Auto format makes the picture to fill the screen as much as possible.
Sometimes also video recorder programmes carry special signals which will automatically switch the TV to the correct screen format.
Auto format is disabled when in Dual screen.
When in Movie Expand 14:9 or 16:9 or Super zoom picture format you can make subtitles visible with the cursor up/down.

DNR Dyn. Noise Reduction

To reduce the image noise and improve picture quality when receiving weak signals. Press the DNR key to select **Off**, **Minimum**, **Medium** or **Maximum.**

Select TV channels by theme

If programmes in the TV guide of NEXTVIEW have defined themes, it is possible to quickly select TV programmes with the coloured keys.

1. Press the red, green, yellow or blue key to select one of the four predefined theme categories **MOVIES**, **SPORTS**, **CHILDREN**, **NEWS**.
   The TV switches to the first TV channel broadcasting a programme of the selected theme. At the same time a list of all the TV channels currently transmitting a programme of the selected theme appears on the screen.
2. Use the cursor up/down to select a programme.
3. Press the same colour key again to remove the list.
4. Under the grey key you can programme your own theme category.
   (Default; the theme category **Shows** has been preprogrammed in the factory.)
   Press the cursor up and select a preferred theme from the theme list with the cursor left/right.
   From now on the selected theme category is stored under the grey key.
   A list of all the TV channels currently transmitting a programme of the selected theme appears on the screen.

Time display

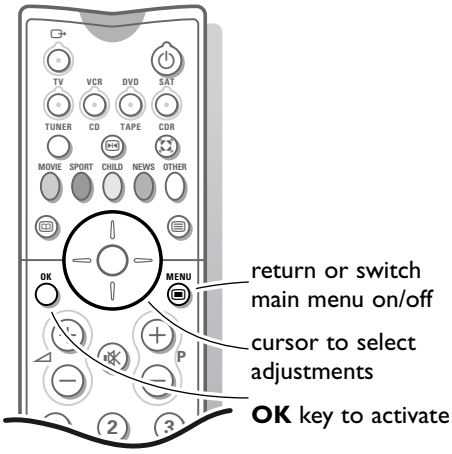
The time, downloaded from the TV channel (with teletext) stored on programme number 1 or the lowest favourite programme number, is displayed on the screen.

This function is not available when continuous subtitles have been switched on.

Teletext functions see p. 28

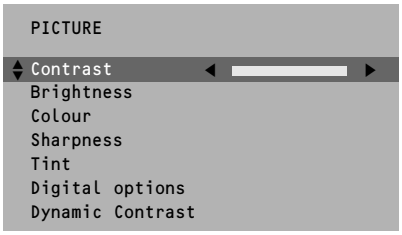
Zoom

Press the **ZOOM** key repeatedly to select one of the zoom magnifications (x1, x4, x9, x16). Additionally you can shift the selected zoom window over the screen with the cursor.
Press i+ to activate/de-activate the continuous display of the zoom magnification.
The zoom window is reset after: selecting another TV channel, another picture format or when another picture format is selected automatically.
Zooming is disabled in Dual screen mode.



Use of the menus

1. Press the ▣ key to display/cancel the **MAIN MENU**.
2. Use the cursor in the up/down directions to select the **PICTURE**, **SOUND** or **FEATURES** menu or to select **PROGRAMMES**.
3. Press the cursor right to activate the selected menu.
4. Use the cursor in the up/down, left/right directions to select the menu item.
5. Use the **OK** key to activate.
6. Press the ▣ key repeatedly to return or to switch the menu off.



Picture menu

If an NTSC peripheral is connected to one of the euroconnectors, the option Hue also appears.

Tint
Select the colour temperature: **Normal**, **Warm** or **Cool**.

Digital options
Although Natural Motion is the most ideal setting, it may be preferable to switch back to Digital Scan and/or 100 Hz.
To make all the 3 digital options available at the same time and selectable, first select a 4:3 picture format.

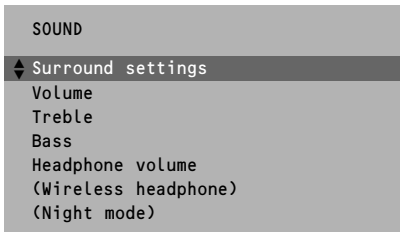
- **100 Hz** = 100 Hz only (Field flicker reduction)
- **Dig. Scan** = 100 Hz + Dig. Scan (Field and line flicker reduction)
- **Natural Motion** = 100 Hz + Dig. Scan + Natural Motion (Field and line flicker reduction and smooth movement reproduction)

Note: if the menu item Digital options is not present, first select a 4:3 picture format with the ⛶ key.

Dynamic Contrast
To make the contrast in the darker and the brighter picture areas more noticeable, select the **Med** setting.
In certain circumstances it may be preferred to select **Min, Max** or **Off**.

The modified adjustments for Contrast, Brightness, Colour, Sharpness, Tint, Digital options and Dynamic Contrast are automatically stored for all TV channels.
Select **Factory settings** in the Setup menu to restore the predefined factory settings, see p. 9.

Sound menu



Surround settings, see p.17.

The modified adjustments for Volume, Treble and Bass are automatically stored for all TV channels.
Select **Factory settings** in the Setup menu to restore the predefined factory settings, see p. 9.

Headphone volume
See Connect Peripheral Equipment, p. 32 for the connection of the headphone.

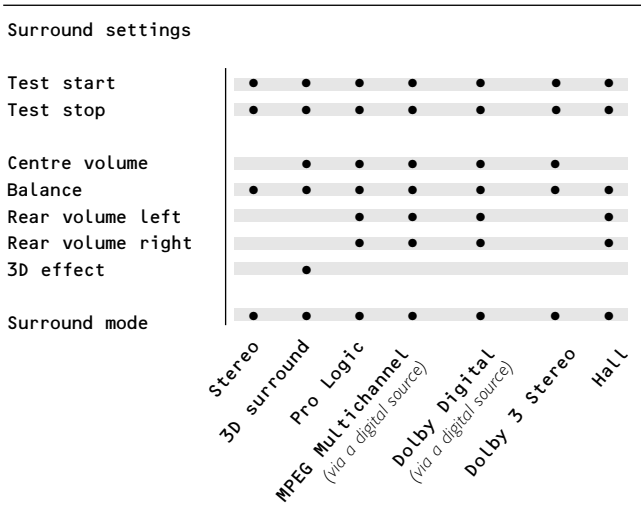
Wireless headphone
If you want to listen via a wireless headphone, select **Yes**.
The wireless surround speakers are muted. The TV surround modes are reset accordingly.
Take care your headphone has the correct RF frequency and that you have selected the same transmitting channel on your wireless headphone as in the Wireless headphone menu item in the Sound Setup menu. See p. 10.
When you stop listening to the wireless headphone, don't forget to switch off the menu item. The previously selected surround mode is restored.

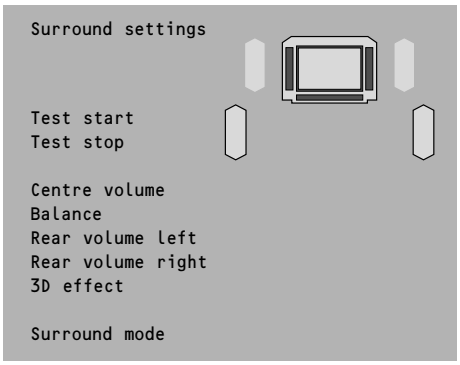
Night mode *(only available with certain Dolby Digital sound sources)*
Select **Yes**, to reduce the dynamics of the sound and to improve listening at low volume.
This is useful for late-night listening, e.g. to a DVD disc.

Surround settings menu

Select **Surround settings** in the Sound menu.

The contents of the Surround settings menu depends on the selected Surround modes.





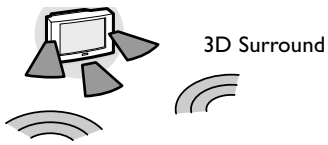
The graphical representation of the speakers is displayed on screen when controls are being changed or when in test tone mode.
The drawing on screen is updated according to the chosen loudspeaker setup and the selected surround mode. Speakers which are active are highlighted.
In 3D surround mode the graphical representation of the rear loudspeakers is replaced by the symbol))) (((. The menu item **3D effect** appears and the level of the 3D effect can be adjusted.

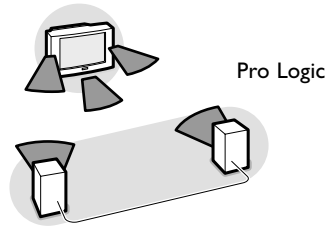
Note: if extra front speakers are connected and selected in the Sound Setup menu, all internal TV speakers produce centre sound. See Connect Peripheral Equipment, Extra loudspeakers/Amplifier, p. 33.

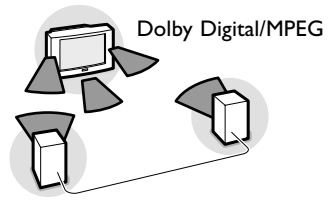
Adjustment of the volume level of the loudspeakers

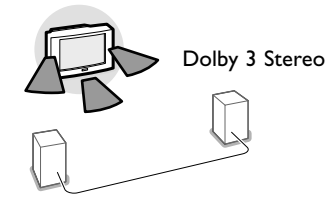
The menu item **Test** enables you to have a reference of the internal and the rear loudspeakers loudness.

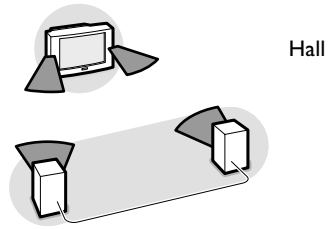
1. Select **Test start** and press the **OK** key.
   A steady noise tone is switched sequentially through the available loudspeakers, for 2 seconds each. This enables you to have a reference of the loudness of each loudspeaker and to adjust the level of each until they all sound equally loud.
   The loudspeakers activated light up in the screen graphic.
2. Select **Centre volume**, **Balance**, **Rear volume left** or **right** and alter the selected adjustments.
3. Select **Test stop** and press the **OK** key when you have finished the adjustment of the speaker levels.

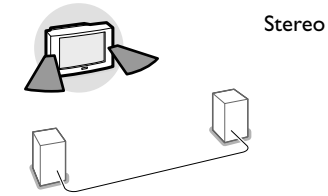












Surround Modes
Select the Surround mode according to the sound mode being broadcast.

3D Surround (optimal with Dolby Surround broadcasting)

3D Surround enables you to experience the effect of Dolby Surround Pro Logic without the need of having rear speakers connected or activated. With Dolby Digital or MPEG Multichannel an improved virtual effect is offered.
The graphical representation of the rear loudspeakers is replaced by the symbol))) (((.
Select the level of **3D effect** with the cursor left/right.

Pro Logic (with Dolby Surround broadcasting)

In addition to the left and right internal speakers, the centre and the rear surround loudspeakers reproduce the Dolby Surround Pro Logic sounds. This sound is always present in the movie or programme marked with ⊡⊡ Dolby Surround.
This mode is especially recommended for such programmes or movies. Dolby Pro Logic signals are also present on some DVD tracks.

Dolby Digital* or MPEG Multichannel
When you have connected a DVD player or a Laser Disc player containing a Dolby Digital decoder (AC-3) or MPEG 2 decoder output (See Connecting Peripherals, Digital equipment, p. 31), you can enjoy Multichannel Surround Sound in your home when playing discs recorded in Dolby Digital or MPEG2. In addition to the left and right internal speakers, the centre, the left and right rear surround loudspeakers and the subwoofer reproduce the Dolby Digital or Dolby MPEG 5-channel Surround sounds.
Select Dolby Digital or MPEG Multichannel Surround mode.

Dolby 3 Stereo (optimal with Dolby Surround broadcasting)

The sound signal is now distributed over the front left, the front right and the centre TV loudspeakers.
The rear loudspeakers do not produce any signal.

Hall

The special sound signal is distributed over the rear loudspeakers which creates a hall effect from the rear.
The centre loudspeaker does not reproduce any signal.
This mode is recommended when you wish to add surround sound to a broadcast which is not encoded Dolby Surround or to a mono signal.

Stereo

This mode reproduces only the left and right front sound signals.
You only hear a stereo sound if the broadcast which you are receiving is transmitted in stereo or nicam stereo.

* ⊡⊡ DOLBY DIGITAL

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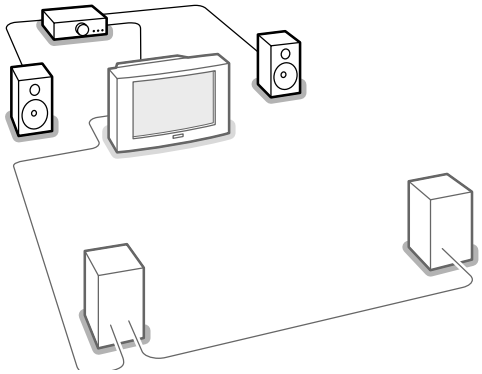


With two extra front loudspeakers connected

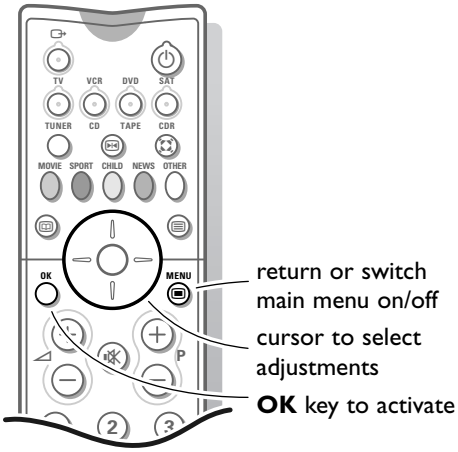
To enhance the sound reproduction of your TV you may connect two extra front loudspeakers via an external amplifier. See Connect Peripheral Equipment, Extra loudspeakers/Amplifier, p. 33.
In the Surround modes, Hall and Stereo **(+ amp)** is added to indicate that you should switch on your amplifier as in these modes the internal TV speakers do not produce any sound.
The subwoofer output is muted.

Note: If extra front speakers are connected and selected, all internal TV speakers produce centre sound in the surround modes Pro Logic, Dolby 3 Stereo, Dolby Digital, MPEG and 3D Surround.

Press the ▣ key to return to the **SOUND** menu.

Dolby Digital sound reception info via the i+ key

Press the i+ key.
When Dolby Digital sound is reproduced, the sound info on screen displays the number of loudspeaker signals which are transmitted.
This is indicated by 2 numbers: the first one indicates the number of front loudspeaker signals, the second one the number of rear loudspeaker signals.
E.g. 'Dolby Digital 3/2' means that 3 front signals are transmitted: left, right and centre, and 2 rear signals: left and right surround.
'Dolby Digital 1/0' means that a mono signal is transmitted.
'Dolby Digital 2/0' means that the transmission contains a stereo signal which can be Dolby Pro Logic encoded.
In this case the surround mode will display Dolby Pro Logic.



Features menu

1. Press the ▣ key to display/cancel the **MAIN MENU**.
2. Use the cursor in the up/down directions to select the **FEATURES** menu.
3. Press the cursor right to activate the selected menu.
4. Use the cursor in the up/down directions to select a menu item.
5. Use the cursor in the left/right directions to select the desired setting.

Sleeptimer
With the sleeptimer you can set a time period after which the TV should switch itself to standby.
The counter runs from **Off** up to **180 min.**
One minute before the TV is set to go to standby, the remaining seconds appear on screen. Not visible in dual screen mode. You can always switch off your set earlier or change the set time.

Child lock
If the child lock is on, the TV can only be switched on with the remote control. The **P** - and + keys on top of the TV cannot be used to select a TV channel. In this way you can prevent unauthorised use of your TV.
If the message **Child lock On** appears, the child lock must be switched off before you can use the **P** - and + keys on top of the TV to select a TV channel.

Subtitle
TV channels with teletext often transmit certain programmes with subtitling. See Teletext, Continuous Subtitles, p. 29 how to select the proper subtitle page from the teletext index.
Select **Subtitle On** or **Off**.

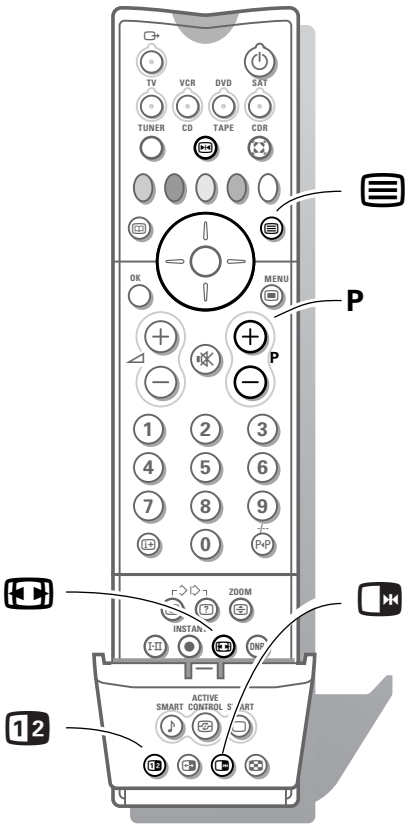
Press the ▣ key to switch off the Features menu.

Programme list

1. Press the ▣ key to display/cancel the **MAIN MENU**.
2. Select **PROGRAMMES** with the cursor up/down.
3. Press the cursor right to activate and to display an overview of all the TV channels installed.
4. Press the cursor up/down to run through the list and press **OK** to select the desired TV channel.

Press the ▣ key to switch off the Programme list.

Dual screen



1. Press the 1 2 key to switch on Dual screen.
   The TV screen is divided into 2 parts:
   - the left side for the normal main picture,
   - the right side for teletext broadcast by the selected TV channel or for NEXTVIEW.

   To operate NEXTVIEW, see p. 22.
   To operate teletext, see p. 27.

   If Dual screen is **Off**, the picture, teletext or NEXTVIEW is displayed full screen.

2. Press the key under the door of the remote control to select a vertical squeezed or a non vertical squeezed picture size.

3. Press **+ P -** to run through the teletext pages.

4. Press the key to return to a full picture screen and to select another TV channel with the **+ P -** keys or with the digit keys.

Select still teletext picture

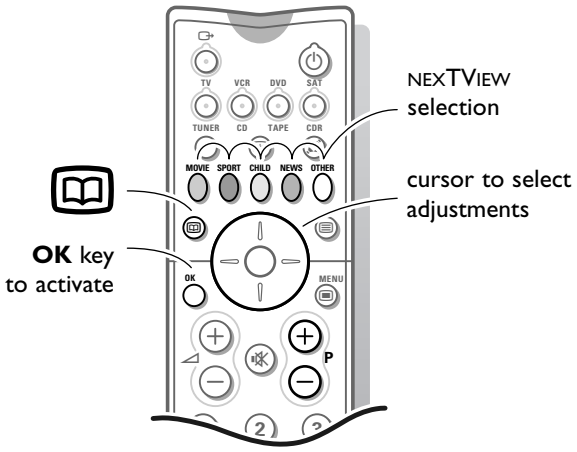
Press the key to freeze the teletext picture.
The info in this page is not being updated by the teletext broadcaster.

NEXTVIEW / Teletext guide

In the Setup menu, p. 9 you were asked to select a NEXTVIEW provider.
If the selected provider supports NEXTVIEW then the TV will automatically present the NEXTVIEW programme schedule. If the TV channel supports just teletext, then the TV will switch automatically to Teletext guide.
Both facilities are offering the same functions: record, remind, info and watch. However in case of Teletext guide the broadcaster is responsible for the availability of these functions.

Some broadcasters provide information about their own programmes and sometimes other TV channels for one or more days. You can search for the programmes you want to watch up to 7 days in advance. It is also possible to search for a programme by theme, e.g. sport, movie, etc. Once a programme has been selected it can be tagged, to remind you, or to record on the video recorder automatically (provided the video recorder is equipped with NEXTVIEWLink), once, daily, weekly or series.
Teletext guide/NEXTVIEW also allows direct access to detailed information about programmes if provided by the broadcaster.

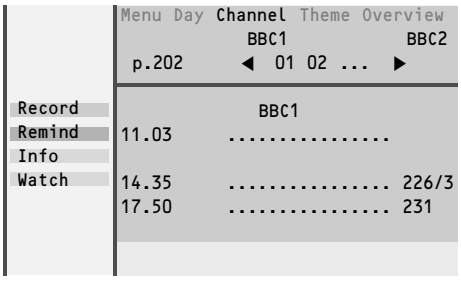
The broadcaster is responsible for the content of the information.
The TV is responsible for the capture of that information and for the presentation to the user.



Use of the Teletext guide/NEXTVIEW menus

1. Press the 📖 key on the remote control to display/cancel the Teletext Guide/ NEXTVIEW menu.
2. Use the cursor in the up/down, left/right directions to select the date, **DAY** for the daily guide and the time block (in steps of 15 minutes), **CHANNEL** for the channel guide, **THEME** for the theme guide, **OVERVIEW** for an overview of all the programmes which are marked as reminders or for recording, the programme guide page number or to enter the programme list.

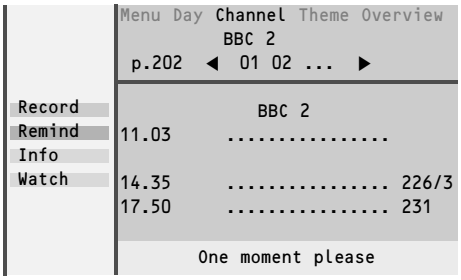
Teletext guide



3. Enter the proper programme guide page number with the digit keys or with the **– P +** keys.
4. Press the cursor left/right to run through the subpages.
5. Select a programme with the cursor up/down.
6. Press one of the colour keys to select one of the basic functions (if available); **record**, **remind**, **watch**, **info**. See Basic functions further on.
7. Press the **OK** key to return to the header area again.

NEXTVIEW

3. Select a programme with the cursor up/down.
4. Press one of the colour keys to select one of the basic functions (if available); **record**, **remind**, **watch**, **info**. See Basic functions further on.
5. Press the **OK** key to return to the header area again.



Teletext guide

TV channels which broadcast teletext also transmit a page with the programme guide of the day. For each selected TV channel the programme guide page can be selected with the 🕮 key:

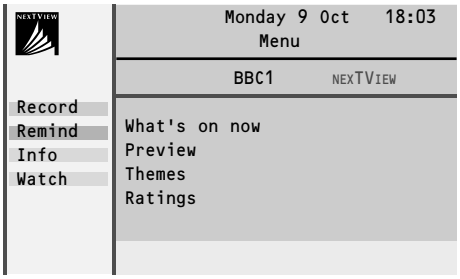
- automatically if the selected TV channel supports services like PDC (Programme Delivery Control) or MIP (Magazine Inventory Page).
- if automatic pre-selection is not possible then the index page is displayed and the proper programme guide page number of the selected TV channel has to be entered with the digit keys.

The programme guide page will be stored automatically only if it satisfies Video Programming via Teletext (VPT) requirements.

Every time you press the 🕮 key, the programme guide page of the selected TV channel will be available if the TV channel does not support NEXTVIEW.

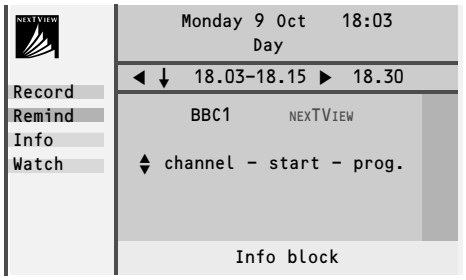
The function items record, remind, info and watch, corresponding with the coloured keys, become highlighted if the displayed programme page satisfies the Video Programming via Teletext (VPT) requirements. Select a programme item and press one of the function keys, e.g. Record or Remind. See Basic functions further on.
The Info item is enabled if the selected programme contains a page number with an optional subcode referring to a page with more info about the programme.

NEXTVIEW modes to sort and represent information

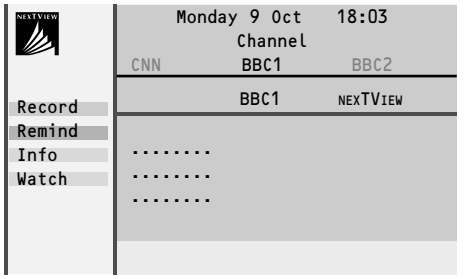


Menu

If in the Setup menu, see p. 9, you have selected a TV channel as NEXTVIEW provider which also supports NEXTVIEW, NEXTVIEW menu is displayed or can be selected. The selected TV channel is responsible for this menu.
The NEXTVIEW menu appears when NEXTVIEW is switched on.
Use the cursor up/down to select a menu item.
Use the cursor right to select the menu item.
While going through the menus, the TV is collecting the sorting criteria to finally display a list of programme events.
The functions, in the left column, are shown at reduced brightness as long as the menu is displayed.
If **None** has been selected as NEXTVIEW provider in the Setup menu, the broadcaster's defined menu will not be available.

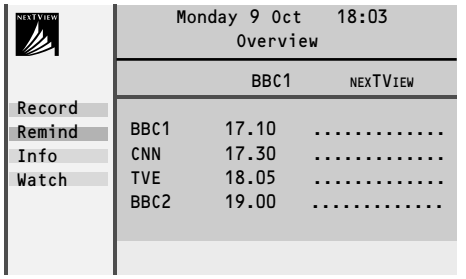


Day
The day guide provides an overview of all programme titles active in the selected time block. Time blocks are 15 minute intervals starting from the current time of the current day.
The default order is based on the programme list of the favourite TV channels as stored in the installation of the TV. TV channels not marked as favourite TV channels will not appear.
Default NEXTVIEW opens with the day screen if the broadcast does not have its own menu.



Channel
The Channel guide provides an overview of all programmes that are broadcast by a single channel during one day.
Previous programmes can be made visible via cursor up.
The list will start with the earliest broadcast programme.
With cursor left/right another favourite TV channel can be selected.

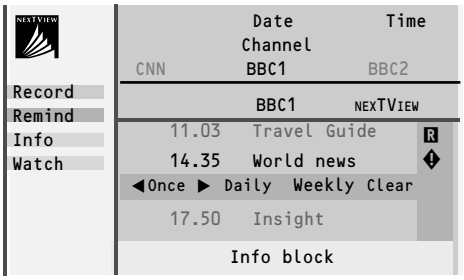
Theme
The theme guide displays a list of all programmes at the selected date, that matches with the selected category (news, sport, culture, movies, …).
The default starting item will be the current or next programme on the current TV channel.
The **THEME** selection is only present if programmes in the TV guide have defined themes.



Overview
The Overview menu provides a list of programmes that are marked as reminders and those that have to be recorded.
When more than one programme to be recorded has an overlap in time, these programmes will be marked by a red colour.

After the programme has been broadcast, all items set for once will be deleted from the list the following day. This menu can be used to change a reminder or programmes to be recorded.

Note: the TV will automatically interpret the broadcast time (as shown on the teletext guide) of your selected programme into the correct local time and date.



Basic functions

The functions Record, Remind, Info and Watch can be activated with the corresponding colour keys on the remote control.
If the function is not available, then the text is shown at reduced brightness.
Select a programme with the cursor up/down.

Record R or Remind

1. Press the red colour key to activate **Record** or the green colour key to activate **Remind.**
   If the programme number of the broadcaster is not yet known, a message appears with the request to input the correct programme number with the cursor left/right and press OK.
   A small menu pops up in which you can choose the interval: once, daily or weekly, or clear an earlier made record or remind setting. The default interval is set to **Once**. If a programme is an episode of a series, it is identified by the system and the options **daily** and **weekly** are replaced by the option **series**. In this case the system identifies when the next episode of the series will be broadcast. This is not possible in the Teletext guide.
2. Use the cursor in the left/right directions to select the interval.
   The colour of the tag refers to the interval.
3. Press the **OK** key.

When **Record** R is activated:
Storing appears to indicate the video recorder is programmed.
When **Remind** is activated:
- a message will appear on the screen the moment the tagged programme with starts, when watching the TV later on.
- the TV switches on the moment the tagged programme with starts, when the TV is in standby.

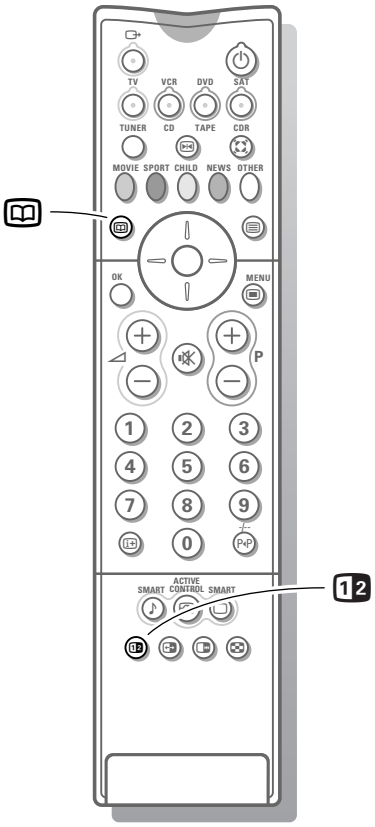
Note: Recordings and reminders are not possible when the broadcaster does not transmit dates and times of the programmes.
*The message **No TV programming possible** appears.*
Make sure you are on the TV programming page.

Info

1. Press the yellow colour key to activate **Info**.
   Advertisements or information relating to the selected programme are displayed. In some cases all of the information does not fit on the screen. Use the cursor up/down to browse through all of the information.
2. Press the yellow colour key again to switch off the information.

Watch

Press the blue colour key to activate **Watch**.
This function is only available if a currently broadcast programme is selected. Otherwise the function is not available.
The selection causes the TV to tune to the selected TV channel. NEXTVIEW is switched off.



Select Picture/NEXTVIEW-Teletext Guide

Press the 📖 key.
Press the 1 2 key.
The screen is divided into two parts: the left side for the normal main picture, the right side for NEXTVIEW/Teletext Guide.
Press the 1 2 key to return to a full NEXTVIEW/Teletext guide screen and press the 📖 key to return to a full picture screen.

Acquisition and updating of NEXTVIEW information

Acquisition and updating of NEXTVIEW is done when you are watching the TV channel of the selected NEXTVIEW provider, see Setup menu p. 9, or when the TV is switched to standby.
The indicator on the front of the TV remains orange during standby.
After all needed acquisition or updating is complete, it turns red.
Acquisition of fresh data will happen once during the night.

Note: it may be necessary to put the TV in standby mode when all NEXTVIEW information is outdated, e.g. returning from holiday.

Video recorder restrictions with NEXTVIEW

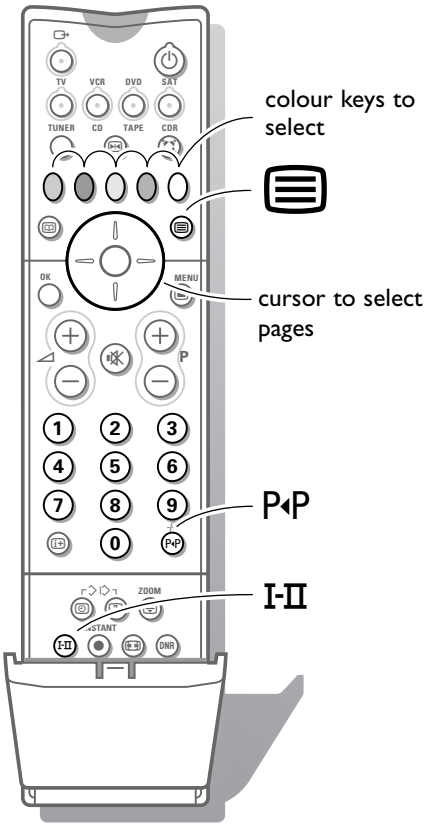
The **Record** item and the automatic recording will only be present and possible if your video recorder is equipped with NEXTVIEWLink.
Your video recorder should be connected to **EXTERNAL 2**. See Connect Peripheral Equipment, p. 36.

The daily, weekly and series options, the number of recordings set and the way overlapping recordings are managed, depend on the type of video recorder you have. When all video recorder timers are full, **No free record timer** appears on the screen.

Upload video recorder overview *(only with Philips sets)*
When the TV is switched on, the timer recordings are uploaded to the TV to check if any manual addition or deletions have been done. This is shown in the overview.
The video recorder manages and removes timer recordings when performed.

Some NEXTVIEWLink video recorders do not allow a daily programming of the recording to start on a Saturday or Sunday. In this case the item **daily** will be removed from the menu on those days.

Teletext



Most TV channels broadcast information via teletext.
Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually p. 100).
Depending on the TV channel, teletext is transmitted in different systems.
The colours used in the options line correspond with the colour keys of your remote control.

About Easy Text

Easy Text considerably reduces the waiting time (on condition that the teletext broadcast of the particular TV channel is received for at least half a minute) by :

- a direct selection of previous and following pages which are in transmission and of the pages referred to in the options line
- a habit watcher list: frequently used pages are put automatically in a list of preferred pages, so that they are immediately available
- the precapturing of the page numbers referred to in the displayed page
- the precapturing of all the subpages.

Switch Teletext on and off

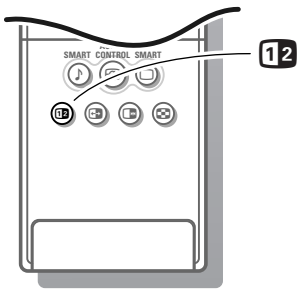
Press ☰ to switch the teletext on or off.
The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.

Remark: if the displayed teletext characters on screen do not correspond with the characters used in your language, press the **I-II** *key, under the door of the remote control, repeatedly to select language group 1 or 2.*

Select a Teletext page

With the digit keys
Enter the desired page number with the digit keys.
The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
A message appears when you have entered a non existent or incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

With the option line
Select with the colour keys, corresponding to the coloured options at the bottom of the screen, the desired subject.



Select Picture/Teletext

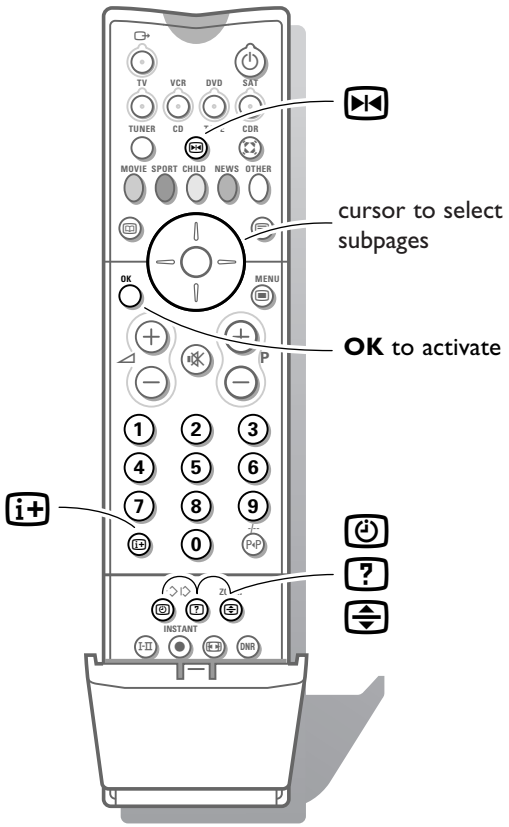
Select a TV channel which broadcasts teletext.
Press the 1 2 key.
The screen is divided into two parts:
the left side for the normal main picture,
the right side for teletext broadcast by the selected TV channel.
Press the ☰ key to return to a full screen picture or press the 1 2 key to return to a full teletext picture.

Quickly run through the teletext pages

Press the cursor up/down or the **- P +** keys to run through the previous or the following pages.

Select the previously selected txt page

Press the P↤P key.



Select the index teletext page

Press the grey colour key to display the main index (usually p.100).

Only for T.O.P teletext broadcasts :
T.O.P orders the pages in categories and adds other possibilities of enhancing ease of use.
Press i+. A T.O.P. overview of the teletext subjects available is displayed.
Not all TV channels broadcast T.O.P. teletext. When the teletext system is not T.O.P. teletext, a message appears at the top of the screen.
Select with the cursor up/down, left/right the desired subject and press the **OK** key.

Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpages can be selected in 2 ways :

With the cursor left/right
The other subpage numbers appear in white as soon as the transmission has found them. They are stored in the memory so that they are available while the teletext page is on screen.
Select with the cursor left/right the previous or the following subpage.

With the ⏲ key
• Enter the subpage number yourself:
Press ⏲. Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
The TV searches for the selected subpage.

• Automatically rotating subpages:
Press ⏲ again to cancel the entered digit key for the subpage.
Now the subpages rotate automatically.

Press ⏲ again to select the subpages with the cursor left/right again.

Special teletext functions

Hold
Press ⏭ to stop the automatically rotating of the subpages or to stop the page counter from seeking when you have entered a wrong page number or when the page is not available.
Enter another page number.

Enlarge
Press ⇕ repeatedly to display the upper part, the lower part and then to return to the normal page size. When the upper part is displayed, you can scroll the text, line by line using the cursor up/down.

Reveal
Press ? to reveal/conceal the hidden information, such as solutions to riddles and puzzles.

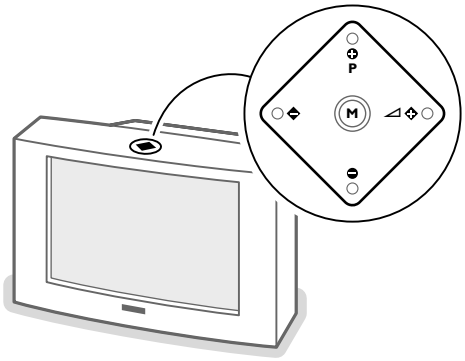
Select Continuous Subtitles

TV channels with teletext often transmit programmes with subtitling. For each TV channel you can store a subtitle page which will be displayed continuously if the programme being broadcast is transmitted with subtitles.

Switch on teletext and select the proper subtitle page from the index.
Switch off teletext.
Now the subtitle page is stored for the selected TV channel.

Once subtitles have been stored and **Subtitle On** has been selected they will automatically be displayed on the selected TV channel if subtitles are in the transmission.
Select **Subtitle On** or **Off** in the Features menu, see p. 20.
The subtitle symbol appears when **Subtitle On** is selected.

Remark: you are in teletext mode, so only teletext functions are available.



Keys on top of the TV

Should your remote control be lost or broken you can still change some of the basic picture settings with the keys on top of the TV.

Press the **M** key repeatedly to select **Volume**, **Brightness**, **Colour**, **Contrast**, **Treble** and **Bass**.
Press the **P** - or + keys to carry out the selected adjustment.
When the menu adjustment is not displayed, the **P-** or **+** keys enable you to select the TV channels, the - or + keys to adjust the volume.

The selected adjustment automatically switches off when no action has been executed for 10 seconds.

Connect Peripheral Equipment

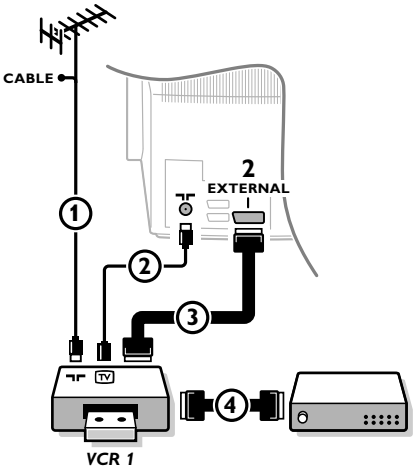
There is a wide range of audio and video equipment that can be connected to your TV.
The following connection diagrams show you how to connect them.

Video recorder

Connect the aerial cables ①, ② and, to obtain the optimum picture quality, eurocable ③ as shown opposite.

easy LINK

If your video recorder is provided with the EasyLink function, the eurocable supplied with it should be connected to **EXTERNAL 2** *to benefit from the EasyLink functionality.*



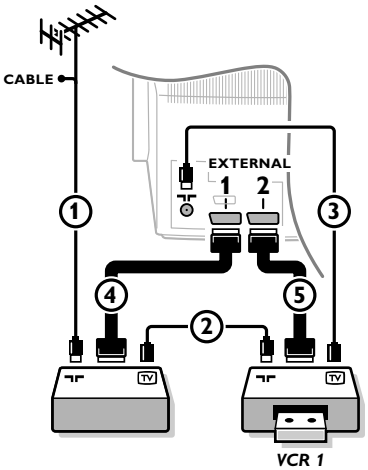
If the eurocable ③ is not used the following steps are required:

Search for and store the test signal of the video recorder

1. Unplug the aerial cable ① from the aerial socket ⊓ of your video recorder.
2. Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
3. Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Installation, Searching for and storing TV channels, Manual Installation, p. 6.
4. Store the test signal under programme number 0 or between 90 and 99.
5. Replace the aerial cable in the aerial socket ⊓ of your video recorder after you have stored the test signal.

Decoder and video recorder
Connect a eurocable ④ to your decoder and to the special euroconnector of your video recorder. See also the video recorder handbook.
See Define Decoder/Descrambler prog. numbers, p. 8.
You can also connect your decoder directly to **EXTERNAL 1** or **2** with a eurocable.

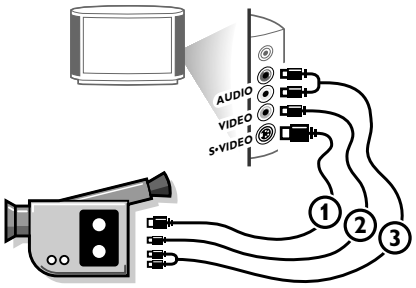
Video recorder and other equipment (except Digital Sources)



1. Connect the aerial cables ①, ② and ③ as shown opposite. Better picture quality can be obtained if you also connect eurocable ⑤ to **EXTERNAL 2** and a eurocable ④ to **EXTERNAL 1**, **3** or **4**.
2. Look for the test signal of your peripheral in the same way as you do for a video recorder.

When a video recorder is connected to EXTERNAL 1 you can only record a programme from your TV.
Only when a video recorder is connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Record with your video recorder, p. 36.

Note: EXTERNAL 1 can handle CVBS and RGB, EXTERNAL 2 CVBS, Y/C and RGB, EXTERNAL 3 and 4 only CVBS.



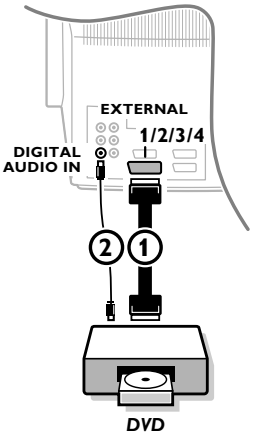
Camera & camcorder

1. Connect your camera or camcorder to sockets at the right side of your TV.
2. Connect the equipment to **VIDEO** ② and **AUDIO L** ③ for mono equipment.

   Press the I-II key repeatedly to select the sound coming from one or both loudspeakers of your TV.
3. For stereo equipment also connect **AUDIO R** ③.

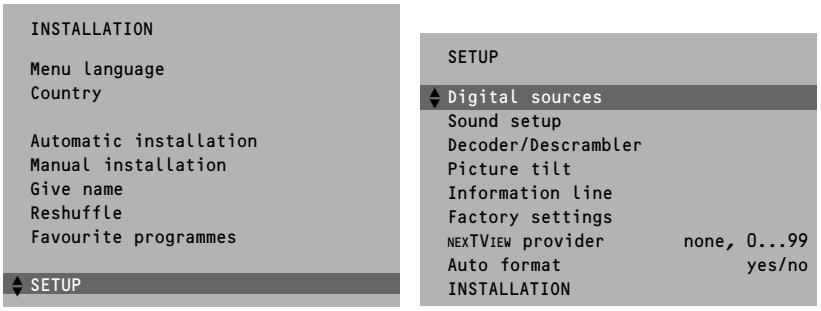
S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

Digital equipment (DVD, digital satellite tuner,...)



Connect your digital equipment with a eurocable ① to one of the euroconnectors (**EXT1**, **EXT2**, **EXT3** or **EXT4**), or with a cinch cable to the **VIDEO** input at the right side of the TV (see illustration above).
For digital sources with a Dolby Digital (AC-3)/MPEG2 audio output also connect an audio cable ② to the **DIGITAL AUDIO IN** socket of your TV to enjoy MultiChannel surround sound.

1. Press ⏲ and ? at the same time.



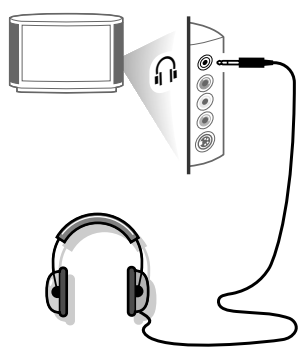
2. Select **Digital sources** in the Setup menu of the **INSTALLATION** menu and select:
   - **None** if you have no digital source connected,
   - **EXT1**, **EXT2**, **EXT3** or **EXT4** if you have connected your equipment to a euroconnector,
   - **FRONT** in case you connected your equipment to the right side of the TV,
   - **EXT1 + dig. audio** if you also connected an audio cable to the **DIGITAL AUDIO IN** socket.
3. Press the ▣ key to switch off all menus.

*Note: the low quality of some digital picture material may be the cause of digital image distortion. In this case select **Eco** under the **SMART PICTURE** ▢ key on the remote control as this setting is intended to improve distorted picture quality.*

Wired rear loudspeakers

When no wireless RF surround sound is possible or when there is too much interference you can still enjoy Dolby Pro Logic and Dolby Digital surround sound by connecting the two rear loudspeakers to the TV with a stereo cinch to stereo 3,5 mm jack cable. See Sound Setup, p. 10.

Headphone



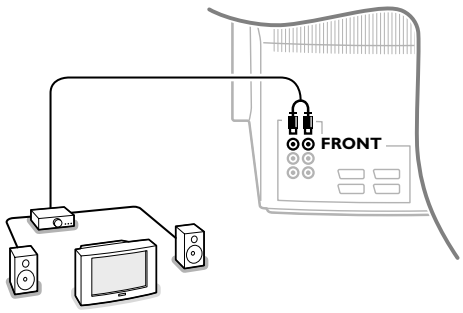
1. Insert the plug into the headphone socket at the right side of the TV.
2. Press on the remote control to switch off the internal loudspeakers of the TV.
   The headphone impedance must be between 8 and 4000 Ohm.
   The headphone socket has a 3.5 mm jack.

In the **SOUND** menu select **Headphone volume** to adjust the headphone volume.
In case you want to listen via a wireless headphone, see Sound setup, p. 10.

Other equipment

Other equipment can be connected to one of the remaining euroconnectors.

Connect Extra loudspeakers / Amplifier



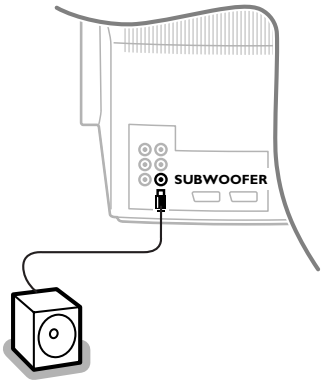
Stereo amplifier and two extra FRONT speakers
To enhance the sound reproduction of your TV you can connect two extra speakers via an external amplifier.

1. Connect the audio cables to the audio input of your amplifier and to **AUDIO FRONT L** and **R** at the back of your TV.
The output level is controlled by the volume control of your TV.
Note: Switch off the TV and your audio amplifier before connecting them. Set the audio amplifier's volume to minimum.
2. Select **Extra front speakers Yes (Amp)** in the Sound Setup menu. See p. 11.
See Surround settings, p. 17 for the available Surround modes.
3. Adjust the volume of the audio amplifier.
You may make use of the Test tone function in the Surround Settings menu, see p. 17, to have a reference of the loudness of the separate loudspeakers.
Note: Once you have adjusted the volume of the amplifier, do not change it while watching TV as the whole configuration operates with the volume adjustment of your TV.

Dolby Surround amplifier
Although your TV is already equipped with a Digital Multichannel decoder you might want to connect your own Dolby Surround amplifier.

1. Connect the Dolby Pro Logic Surround amplifier to the **AUDIO L** and **R** at the back of your TV.
2. Select **Extra front speakers No** in the Sound Setup menu. See p. 11.
The audio output is now independent of volume, treble, bass and surround settings.
3. Switch off the volume of the TV with the mute key 🔇.
All volume settings, tone control and speaker connections have to be done via the external Dolby Pro Logic amplifier.

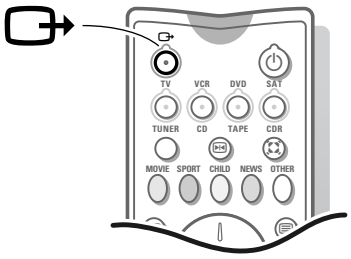
Attention: the sound info on screen will not correspond with the actual sound reproduction. You will not be able to reproduce multichannel Dolby Digital or wireless surround sound through the AUDIO L and R output of your TV.



Connect extra subwoofer
To enhance the sound reproduction of your TV you can connect an externally powered subwoofer.
Connect the audio cable to the **SUBWOOFER OUT** socket of your TV and to the **SUBWOOFER IN** socket of the subwoofer.
The volume of the subwoofer is controlled by the TV. The subwoofer output is muted when the **Extra front speakers** menu item in the Sound Setup menu, p. 11, is switched to **Yes**.
For details, please refer to the subwoofer's manual.

If you want to connect more equipment to your TV, consult your dealer.

To select connected equipment



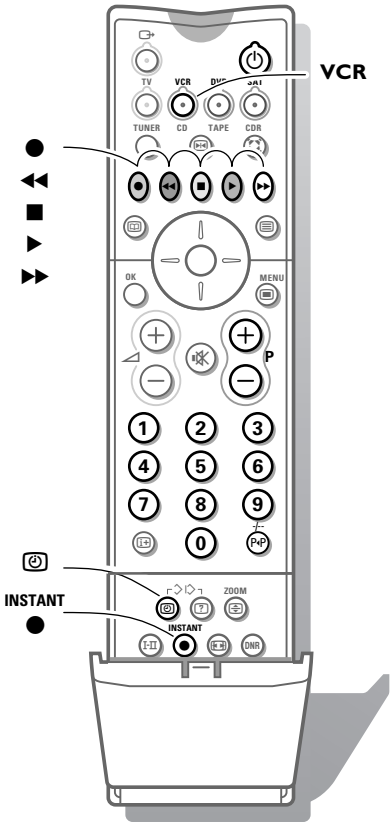
If the TV is connected to a video recorder with the EasyLink function, in some cases the TV will be switched on, even when it was in standby. (E.g. playback tape,...)
This is not possible when Child Lock On is selected.

Equipment connected with an aerial cable only :
Select the programme number under which you have stored the test signal with the digit keys.

Equipment connected to a euroconnector or to the right side of the TV
Press the ⇨ key repeatedly to select **EXT1**, **EXT2, EXT3, EXT4** or **FRONT**, according to where you connected your equipment at the back or the right side of your TV.
Remark : Most equipment (decoder, video recorder, satellite receiver) carries out the switching itself.

If you want to change to TV channels?
Enter the programme number of the TV channel which you want to watch with the digit keys or press the **TV** key.

Audio- and video equipment keys



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

Press the **VCR**, **DVD**, **SAT, TUNER, CD, TAPE** or **CDR** key according to the equipment you want to operate with this remote control. See Use of the remote control, p. 12.

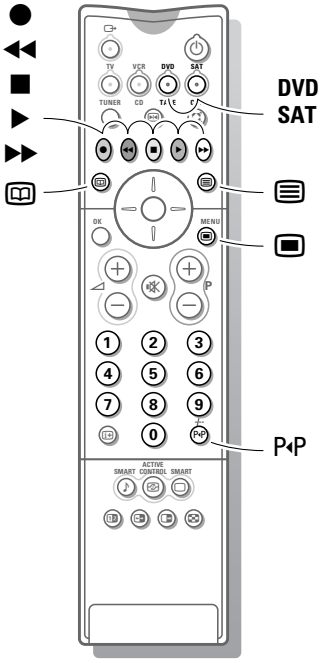
Video recorder
Press one of the video recorder keys after you pressed the **VCR** key:

- ● for record,
- ◀◀ for rewind,
- ■ for stop,
- ▶ for play,
- ▶▶ for fast forward,
- -/-- for selecting 1- or 2-digit programme numbers from the video recorder,
- - P + for sequential programme selection from the video recorder tuner,
- 0 to 9 to select a programme number from your video recorder tuner,
- ⏻ to switch the video recorder to standby
- ⏲ VCR timer

These keys function with equipment which use the RC5 signalling standard.

easy LINK

If your video recorder has the EasyLink function, the key **INSTANT** ● *for recording, under the door of the remote control, can be operated in the TV mode.*
If your EasyLink video recorder has the system standby function, when you press the ⏻ *key for 3 seconds, both TV and the video recorder are switched to standby.*



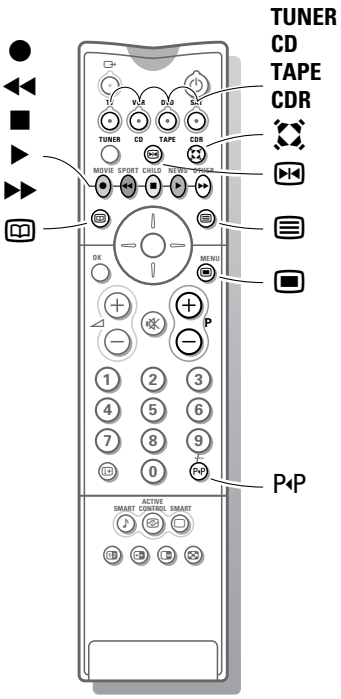
DVD keys
Press one of the following keys after you have pressed the **DVD** key.

- ▭ to switch the DVD menu on or off
- P◂P to select a DVD chapter
- ☰ to select a DVD title
- 🕮 to select your choice of subtitle language
- ● pause
- ◀◀ to search down
- ■ stop
- ▶ play
- ▶▶ to search forward
- 0-9 to select a programme number from your DVD
- **OK** to enter the selected menu item

These keys function with equipment which use the RC6 signalling standard and with Philips DVD players.

Satellite receiver keys
Press one of the TV keys after you have pressed the **SAT** key.

These keys function with equipment which use the RC5 signalling standard.



Tuner, CD, Tape and CDR keys
Press one of the following keys after you have pressed the **TUNER, CD, TAPE** or **CDR** key.

- ▭ to switch the menu on or off (tuner)
- P◂P to select a frequency (tuner)
- ● to record
- ◀◀ to search down (tuner); rewind (CD/tape); speed down (CDR)
- ■ stop
- ▶ play
- ▶▶ to search up (tuner); forward (CD/tape); speed up (CDR)
- ☰ RDS display (tuner); info on screen (CD/CDR)
- 🕮 RDS news/TA (tuner); disc increment (CD/CDR)
- ⏯ pause (CD/CDR/tape)
- ⛶ surround modes (CD/CDR/tape)
- **+ P -** next/previous (CD)

Record with your video recorder without EasyLink

To record S-VHS quality, connect an S-VHS peripheral directly to the video recorder.

Record a TV programme

1. Select the programme number on your video recorder.
2. Set your video recorder to record.
   See the handbook for your video recorder.

Switching programme numbers on your TV does not disturb recording !

Record a programme on your video recorder connected to EXTERNAL 2 from Audio/Video equipment connected to EXTERNAL 1, EXTERNAL 3, EXTERNAL 4 or to sockets on the right side of the TV

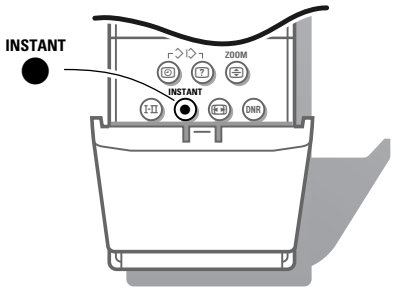
1. Switch on the equipment.
2. Select the right external on your video recorder.
3. Set your video recorder to record.
   You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

Record with your video recorder with EasyLink

easy LINK

If you have connected an S-VHS video recorder provided with the EasyLink function, you can record S-VHS quality from an S-VHS peripheral connected to the right side of the TV. (E.g. from an S-VHS camcorder.)



In TV mode, it is possible to start a direct recording of the programme which is being displayed on the TV screen.
Press the **INSTANT** ● *record key, under the door of the remote control.*
The video recorder switches on from standby and a message of what is being recorded appears on the screen.
The video recorder starts recording the programme you are watching.
Switching programme numbers on your TV does not disturb recording !

When recording a programme from a peripheral connected to EXTERNAL 1, 3, 4 or FRONT, you can not select another TV programme on the screen.
To watch TV programmes again, press the programme number you want to select twice.
Attention: the recording is stopped and your video recorder switches to standby.

If you switch to standby during recording of a programme from a peripheral connected to EXTERNAL 1, 3, 4 or FRONT, the blinking lamp on the front of your TV indicates that you are still recording. The blinking stops after the recording is finished.

Record with your video recorder with NEXTVIEWLink

NEXTVIEW

If your video recorder is equipped with NEXTVIEWLink, and you tagged one or more programmes to be recorded automatically in the NEXTVIEW mode, it is not necessary for the TV to be in the standby mode or switched on for the recording to start.

Tips

Care of the screen
Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

Poor Picture
- Have you selected the correct TV system?
- Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.?
- Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.
- Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. See Installation, p. 6.
- Are brightness and contrast out of adjustment? Select Factory settings in the Setup menu, p. 9.
- Sometimes poor picture quality is possible when having activated an S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to **EXT1** or **EXT2** at the same time. In this case switch off one of the other peripherals.

No picture
- Is the aerial connected properly?
- Are the plugs tightly connected in the aerial socket?
- Is the aerial cable in good condition and does it have suitable plugs?
- Are the connection facilities to a possible second TV in good condition? If in doubt, consult your dealer.

No sound
- No sound on any channel? Check the volume isn't at minimum.
- Is the sound interrupted with the mute key 🔇? Check if your speaker configuration corresponds with the selections made in the Sound Setup menu, p. 10 E.g. is your amplifier switched on when you have 2 extra front speakers connected?
- No sound from the rear speakers or the centre speakers? Select an appropriate surround mode, according to the broadcasted sound signal or adjust the volume or check if the wireless transmitter is properly connected. See Surround Modes, p. 18.
- There is no surround sound when the wireless headphone is switched on.
- In case you connected digital equipment with a digital audio connection you have to select **EXT1 + dig. audio** in the Sound Setup, Digital sources, p. 31 to reproduce sound.

Remote control
If your TV no longer responds to the remote control, the batteries may be dead. You can still use the **M** key and the -/+ keys at the top of your TV.

Menu
Have you selected the wrong menu? Press the same key again to exit from the menu.

NEXTVIEW - No information
See Acquisition and updating of NEXTVIEW information, p. 26.

NEXTVIEW - Displayed time is wrong
The broadcaster on programme number one does not transmit the correct local date en time. Use **Reshuffle** in the **INSTALLATION** menu to place another broadcaster on programme number one.

Wireless Surround speaker system
- Are the active surround speaker and the Surround Sound setting in the Setup menu switched to the same transmitting channel?
- Is the wireless headphone switched off?
- External RF equipment, mobile telephones or people moving around close to the TV may disturb the sound transmission.
- When no RF surround sound is possible, or when there is too much interference, use the wired back up solution. See Install Sound Setup, p. 10.

Wireless headphone
No sound on your wireless headphone? Check if the channel corresponds with the channel for wireless surround or if your headphone has the correct RF frequency. See p. 10.

No solution
Switch your TV off and then on again once.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician.

End of life directives
Philips is paying a lot of attention to producing environmentally-friendly in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of.
Please ensure you dispose of your old TV according to local regulations.

How to dispose of dead batteries?
The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries dead batteries may not be disposed of with your household waste. Please ensure you dispose of dead batteries according to local regulations.

Index

a ACI, *6*
active control, *13*
auto format, *9*
automatic installation, *6*
auto surround, *10*
b bass, *16*
bilingual broadcast, *14*
c camcorder, *31*
centre volume, *17*
child lock, *20*
continuous subtitles, *29*
country, *5*
d decoder/descrambler, *8*
digital scan, *15*
digital sources, *31*
DNR, *14*
dolby 3 stereo, *18*
dolby digital, *18*
dolby surround settings, *17*
dual screen, *21*
DVD, *35*
dynamic contrast, *15*
e easy text, *27*
eurocable, *30*
extra front speakers, *11*
f factory settings, *9*
favourite programmes, *7*
fine tune, *6*
freeze, *12*
frequency, *6*
g give name, *7*
h hall, *18*
headphone, *32*
hue, *15*
i info on screen, *12*
information line, *8*
instant recording, *14*
interrupt the sound, *12*
l language, *5*
m manual installation, *6*
menu language, *5*
n natural motion, *15*
NEXTVIEW, *22*
NEXTVIEW provider, *9*
nicam, *14*
night mode, *16*
p picture adjustments, *15*
picture format, *14*
picture tilt, *8*
programme list, *20*
Pro Logic, *18*
r recording, *36*
reshuffle, *7*
s satellite receiver, *35*
search for TV channels, *6*
setup, *8*
sleeptimer, *20*
smart picture and sound, *13*
sound adjustments, *16*
sound setup, *10*
stereo, *14*
store TV channels, *5*
strobe, *13*
subwoofer, *33*
surround mode, *18*
S-VHS, *36*
switch TV on, *4*
t teletext, *27*
treble, *16*
v video recorder, *30*
volume, *12*
w wireless headphone, *16*
wireless surround, *10*
z zoom, *14*
3D effect, *17*
3D surround, *18*

Glossary

100 Hz
100 Hertz provides a superior solution to the problem of picture flicker which is particularly noticeable with larger screen sizes. In a conventional TV, the picture area is scanned 50 times a second (50 Hertz) – a frequency which is still detectable by the human eye in the form of a flickering picture. In 100 Hertz sets, the picture area is scanned at a rate of 100 times per second (100 Hertz). At this frequency, the eye cannot detect flicker, resulting in a clearer picture which is more relaxing to the eye.

Automatic Channel Installation (ACI)
Automatically installs all TV channels in the same order as offered by your cable company, provided of course that the data is transmitted. It also automatically includes programme number and programme name.
With ACI, channel installation is fully automatic, simple and fast.

Child Lock
Feature to prevent unauthorised use of your TV.

Digital Scan
If you look at a television screen you will see small imperfections in the picture caused by line vibration. Digital Scan (an internal process) removes interline flicker. When combined with 100 Hz, you will see a totally stable image.

DNR
Digital Noise Reduction.
By encoding signals digitally in 100 Hz sets, it is possible to clean up picture noise. This is especially beneficial in poor signal areas and when viewing poor quality video tapes.

Dolby Digital
The audience is completely surrounded by the sound. Both the left/right/centre and subwoofer speakers and the surround speakers are driven by the digitally processed sound system of the TV.
The Dolby Digital sound contains 6 independent digital channels which results in a CD sound performance from both the front and rear sound channels.

Dolby Surround Pro Logic
Literally wraps you in 4-channel sound. it brings your favourite movies to life with all the realism and impact of cinema sound as though you are part of the action.

Easy Link
Digital 'intelligent' ESI bus-system between TV and VCR (Scart connection required). Turns source selection and control into a one-button operation.

Easy Text
Teletext memory that automatically memorises Teletext pages and gives you instant access to them.

Euroconnector
A 21-pin connector system enabling you to simply connect various types of audio/video and computer equipment.

Menu
On-screen display of functions and facilities in a well-organised survey, which you can select using your remote control.

NEXTVIEW
NEXTVIEW is a new feature to assist the TV and VCR user in selecting the programmes she or he likes to watch from a television programme guide on the screen. It enables the user to see a description of every programme, and mark interesting programmes to be reminded (auto TV on) or recorded (NEXTVIEWLink video recorder required).

NTSC
The broadcasting system used in the USA, Japan and parts of South America and Southeast-Asia.

Smart Picture and Sound Controls
Keys on the remote control to select predefined picture and sound settings.

Sleeptimer
Function with which you can set a time period after which the TV should switch itself to standby.

Picture Freeze
TV mode which allows you to "freeze" a certain image in order to study a specific detail at ease, e.g. to make notes of certain programme information like phone numbers.

Teletext
See also Easy Text
WST: World Standard Teletext.
FLOF: Full Level one Features. System applied by the BBC, RVE.... that provides a fast access to the teletext pages.
TOP: Table of (Teletext) Pages. German system for an easy access to the teletext pages.

Tint
TV-function to modify the general colour balance between cool and warm and to adjust it according to your personal preference.